



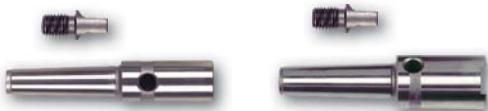
# FRESE COMPONENTI GRUPPO 2



## Mandrini Componibili Cono Morse

Gambo	Tipo 2A		Tipo 2A/T	
	CODICE	PREZZO €	CODICE	PREZZO €
C.M. 2	12.02.002 ●	127,07		
C.M. 3	12.02.003 ●	117,65	12.04.003 ●	193,58
C.M. 4	12.02.004 ●	134,06	12.04.004 ●	206,36
C.M. 5	12.02.005 □	297,30	12.04.005 □	334,56

## Cono Morse Senza Penola



Gambo	Cono Morse 2 A/F		Cono Morse 2 A/TF	
	CODICE	PREZZO €	CODICE	PREZZO €
C.M. 3	12.01.003 ●	204,23	12.03.003 ●	335,91
C.M. 4	12.01.004 ●	230,33	12.03.004 ●	325,77
C.M. 5	12.01.005 □	445,08	12.03.005 □	569,59

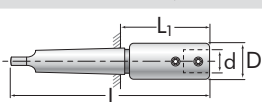
## Penole per Cono Morse



Per Gambo	Filetto	CODICE	PREZZO €
C.M.3	M.12	14.03.012 ●	24,98
C.M.4	M.16	20.03.016 ●	28,43
C.M.5	M.20	40.03.020 ●	28,43

## MANDRINI 2A - 2A/F

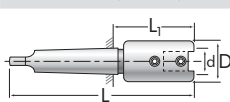
Per Frese fino al Ø 49



Gambo	L	L1	d(H7)	D(h7)
C.M.2	158			
C.M.3	177	75	22	36
C.M.4	203			
C.M.5	235			

## MANDRINI 2 A/T - 2 A/TF

Per Frese dal Ø 50 al Ø 85



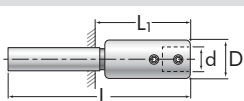
L	L1	d(H7)	D(h7)
185			
211	83	22	48
243			

## Mandrini Gambo Cilindrico



Gambo	Tipo 2B	
	CODICE	PREZZO €
Ø 20	12.05.020 ●	132,92

## MANDRINI 2B



Gambo	L	L1	d(H7)	D(h7)
Cilindrico Ø 20	147	75	22	36



## Mandrino Tipo Lungo anche per guida in bussola

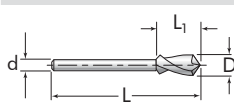
Gambo	Lunghezza Guida	Tipo 2C	
		CODICE	PREZZO €
C.M. 3	175 mm	12.06.175 ●	242,51
C.M. 3	250 mm	12.06.250 ●	321,67

Ø h8	Punte Corte 2/C		Punte Lunghe 2/L	
	CODICE	PREZZO €	CODICE	PREZZO €
*11,0	12.14.110 ●	43,11	12.15.110 ●	45,59
*11,5	12.14.115 ●	43,11	12.15.115 ●	45,59
*11,6	12.14.116 ▲	43,11	12.15.116 ▲	45,59
12,0	12.14.120 ●	48,65	12.15.120 ●	51,75
12,2	12.14.122 ●	48,65	12.15.122 ●	51,75
12,5	12.14.125 ●	48,65	12.15.125 ●	51,75
13,0	12.14.130 ●	51,75	12.15.130 ●	54,17
13,5	12.14.135 ●	56,03	12.15.135 ●	58,54
14,0	12.14.140 ●	59,04	12.15.140 ●	62,15
14,5	12.14.145 ●	60,38	12.15.145 ●	62,72
15,0	12.14.150 ●	62,72	12.15.150 ●	65,91
15,1	12.14.151 ●	62,72	12.15.151 ●	65,91
15,5	12.14.155 ●	62,72	12.15.155 ●	65,91
16,0	12.14.160 ●	71,95	12.15.160 ●	73,78
16,5	12.14.165 ●	71,95	12.15.165 ●	73,78
17,0	12.14.170 ●	73,19	12.15.170 ●	75,69
17,5	12.14.175 ●	76,88	12.15.175 ●	80,57
18,0	12.14.180 ●	81,85	12.15.180 ●	84,89
18,5	12.14.185 ●	81,85	12.15.185 ●	84,89
19,0	12.14.190 ●	86,09	12.15.190 ●	89,18
19,25	12.14.193 ▲	89,37	12.15.193 ▲	91,34
19,5	12.14.195 ●	89,18	12.15.195 ●	91,77
20,0	12.14.200 ●	92,96	12.15.200 ●	95,37
21,0	12.14.210 ●	92,96	12.15.210 ●	95,37
22,0	12.14.220 ●	103,34	12.15.220 ●	107,03
23,0	12.14.230 ●	112,63	12.15.230 ●	115,05
24,0	12.14.240 ●	115,05	12.15.240 ●	116,30
25,0	12.14.250 ●	118,66	12.15.250 ●	121,00

Ø e8	Guide Fisse 2/F	
	CODICE	PREZZO €
*10,0	12.16.100 ●	15,32
*10,5	12.16.105 ●	15,32
*11,0	12.16.110 ●	15,32
*11,5	12.16.115 ●	15,32
12,0	12.16.120 ●	15,32
12,5	12.16.125 ●	15,32
13,0	12.16.130 ●	15,32
13,5	12.16.135 ●	15,32
14,0	12.16.140 ●	17,19
14,5	12.16.145 ●	17,19
15,0	12.16.150 ●	17,19
15,5	12.16.155 ●	17,19

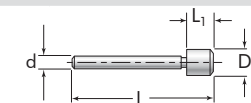
Ø	Guide Rotanti 2/R	
	CODICE	PREZZO €
16,0	12.16.160 ●	31,16
16,5	12.16.165 ●	31,16
17,0	12.16.170 ●	31,16
17,5	12.16.175 ●	31,67
18,0	12.16.180 ●	31,67
18,5	12.16.185 ●	31,67
19,0	12.16.190 ●	31,67
19,5	12.16.195 ○	31,67
20,0	12.16.200 ○	31,67
20,5	12.16.205 ○	32,42
21,0	12.16.210 ●	32,42
21,5	12.16.215 ○	32,42
22,0	12.16.220 ○	32,42
22,5	12.16.225 ○	32,42
23,0	12.16.230 ●	33,69
23,5	12.16.235 ○	33,69
24,0	12.16.240 ○	33,69
24,5	12.16.245 ○	33,69
25,0	12.16.250 ○	33,69
25,5	12.16.255 ○	34,94
26,0	12.16.260 ●	34,94
26,5	12.16.265 ○	34,94
27,0	12.16.270 ○	34,94
27,5	12.16.275 ○	34,94
28,0	12.16.280 ●	34,94
28,5	12.16.285 ○	34,94
29,0	12.16.290 ●	34,94
29,5	12.16.295 ○	36,75
30,0	12.16.300 ●	36,75
30,5	12.16.305 ○	36,75
31,0	12.16.310 ●	36,75
31,5	12.16.315 ○	36,75
32,0	12.16.320 ●	37,35
32,5	12.16.325 ○	39,23
33,0	12.16.330 ●	39,23
33,5	12.16.335 ○	39,23
34,0	12.16.340 ●	39,23
34,5	12.16.345 ○	39,23
35,0	12.16.350 ○	39,23
35,5	12.16.355 ○	39,23
36,0	12.16.360 ●	39,23
36,5	12.16.365 ○	43,11
37,0	12.16.370 ●	43,11
37,5	12.16.375 ○	45,74
38,0	12.16.380 ●	45,74
38,5	12.16.385 ○	45,74
39,0	12.16.390 ●	48,26
39,5	12.16.395 ○	48,26
40,0	12.16.400 ●	53,28
41,0	12.16.410 ○	58,36
42,0	12.16.420 ●	60,89
43,0	12.16.430 ○	60,89
44,0	12.16.440 ●	60,89
45,0	12.16.450 ○	64,71
46,0	12.16.460 ●	64,71
47,0	12.16.470 ○	64,71
48,0	12.16.480 ●	66,49
49,0	12.16.490 ○	66,49
50,0	12.16.500 ●	66,49
51,0	12.16.510 ○	66,49
52,0	12.16.520 ●	67,66

## PUNTE 2C - 2L



Tipo	L	L1	d
2/C	125	30	10
2/L	145	50	10

## GUIDE 2F - 2R



L	L1	d	D(e8)
105	20	10	10 - 52

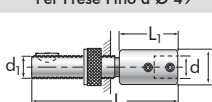
## Mandrini Registrabili DIN 6327



Gambo	Tipo 2 D C.N.		Tipo 2 D/T C.N.	
	CODICE	PREZZO €	CODICE	PREZZO € ▲
TR-20	12.07.020 ●	278,53		
TR-28	12.07.028 ●	254,87	12.08.028 ●	334,34
TR-36	12.07.036 ▲	336,03	12.08.036 ▲	620,49
TR-48			12.08.048 ▲	693,75

## MANDRINI 2 D C.N.

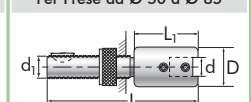
Per Frese Fino a Ø 49



Gambo	L	L1	d(H7)	D(h7)
TR-20	163			
TR-28	170	75	22	36
TR-36	193			
TR-48				

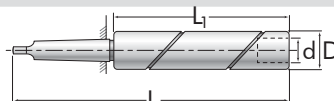
## MANDRINI 2 D/T C.N.

Per Frese da Ø 50 a Ø 85



L	L1	d(H7)	D(h7)
180			
201	83	22	48
228			

## MANDRINI 2C



Tipo	L	L1	d(H7)	D(h7)
2C 175 mm	183	100	14	26
2C 250 mm	233	150		

\* Da NON impiegare con frese in M.D.

# per fresare dal Ø 16 al Ø 85 GRUPPO 2



Ø k7	N		W		H	
	CODICE	PREZZO €	CODICE	PREZZO €	CODICE	PREZZO €
16,0	12.09.160 ●	63,47	12.10.160 ●	72,05		
16,5	12.09.165 ○	72,19				
17,0	12.09.170 ●	63,47	12.10.170 ○	72,05		
17,5	12.09.175 ○	72,19				
18,0	12.09.180 ●	63,47	12.10.180 ●	72,05	12.11.180 ○	123,59
18,5	12.09.185 ○	77,76				
19,0	12.09.190 ●	64,83	12.10.190 ○	73,32	12.11.190 ●	125,87
19,5	12.09.195 ○	77,76				
20,0	12.09.200 ●	64,83	12.10.200 ●	73,32	12.11.200 ●	130,43
20,5	12.09.205 ○	77,76				
21,0	12.09.210 ●	64,83	12.10.210 ○	73,92	12.11.210 ○	133,96
21,5	12.09.215 ○	80,26				
22,0	12.09.220 ●	65,33	12.10.220 ●	76,41	12.11.220 ●	130,43
22,5	12.09.225 ○	80,48				
23,0	12.09.230 ●	68,58	12.10.230 ○	76,41	12.11.230 ○	137,41
23,5	12.09.235 ○	82,03				
24,0	12.09.240 ●	69,07	12.10.240 ●	77,06	12.11.240 ●	130,43
24,5	12.09.245 ○	83,46				
25,0	12.09.250 ●	75,32	12.10.250 ○	77,06	12.11.250 ●	135,15
25,5	12.09.255 ○	85,91				
26,0	12.09.260 ●	75,93	12.10.260 ●	83,30	12.11.260 ●	138,60
26,5	12.09.265 ○	83,53				
27,0	12.09.270 ●	78,50	12.10.270 ○	90,01	12.11.270 ○	138,60
27,5	12.09.275 ○	86,31				
28,0	12.09.280 ●	80,91	12.10.280 ●	94,90	12.11.280 ●	138,60
28,5	12.09.285 ○	88,96				
29,0	12.09.290 ●	84,09	12.10.290 ○	96,66	12.11.290 ○	145,53
29,5	12.09.295 ○	92,47				
30,0	12.09.300 ●	84,66	12.10.300 ●	97,82	12.11.300 ●	147,85
30,5	12.09.305 ○	93,11				
31,0	12.09.310 ●	89,60	12.10.310 ○	99,81	12.11.310 ○	158,00
32,0	12.09.320 ●	92,10	12.10.320 ●	101,09	12.11.320 ●	152,41
33,0	12.09.330 ●	92,74	12.10.330 ○	102,38	12.11.330 ●	152,41
34,0	12.09.340 ●	95,10	12.10.340 ●	107,90	12.11.340 ●	157,04
35,0	12.09.350 ●	98,88	12.10.350 ○	110,95	12.11.350 ●	160,47
36,0	12.09.360 ●	101,52	12.10.360 ●	113,42	12.11.360 ●	164,02
37,0	12.09.370 ○	110,79	12.10.370 ○	115,28	12.11.370 ○	173,22
38,0	12.09.380 ●	111,35	12.10.380 ●	116,63	12.11.380 ●	175,52
39,0	12.09.390 ●	116,63			12.11.390 ○	180,15
40,0	12.09.400 ●	117,65	12.10.400 ●	120,07	12.11.400 ●	179,01
41,0	12.09.410 ●	122,44			12.11.410 ○	197,48
42,0	12.09.420 ●	124,71			12.11.420 ○	190,56
43,0	12.09.430 ●	138,76			12.11.430 ○	190,56
44,0	12.09.440 ●	139,97			12.11.440 ●	210,20
45,0	12.09.450 ●	141,07			12.11.450 ●	210,20
46,0	12.09.460 ●	144,50			12.11.460 ●	215,96
47,0	12.09.470 ●	153,85			12.11.470 ○	236,75
48,0	12.09.480 ●	156,17			12.11.480 ●	224,03
49,0	12.09.490 ●	164,02			12.11.490 ●	255,43

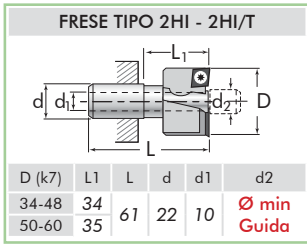
HI	
Ø	PREZZO €
34	12.17.340 ● 280,20
35	12.17.350 ● 280,20
36	12.17.360 ● 280,20
38	12.17.380 ● 280,20
40	12.17.400 ● 280,20
42	12.17.420 ● 297,08
43	12.17.430 ● 333,60
44	12.17.440 ● 333,60
45	12.17.450 ● 297,97
46	12.17.460 ● 303,35
48	12.17.480 ● 305,07

S - 90°	
Ø	PREZZO €
20,5	12.12.205 ● 73,38
25,0	12.12.250 ● 76,90
28,0	12.12.280 ● 88,02
31,0	12.12.310 ● 90,96
34,0	12.12.340 ● 95,67
37,0	12.12.370 ● 103,81
40,0	12.12.400 ● 110,00

S/T - 90°	
Ø	PREZZO €
50	12.12.500 ● 179,28
63	12.12.630 ● 205,63
75	12.12.750 ● 278,20
100	12.12.100 ● 522,51

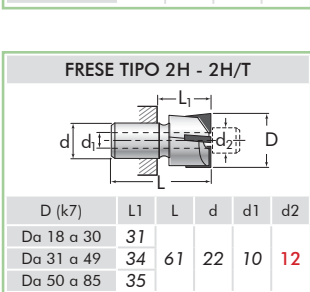
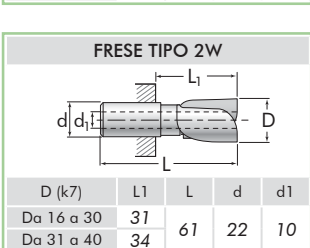
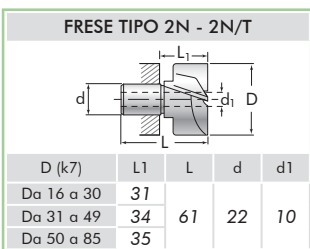
S - 60°	
Ø	PREZZO €
25	12.13.250 ● 76,90
31	12.13.310 ● 88,02
37	12.13.370 ● 99,05

S/T - 60°	
Ø	PREZZO €
50	12.13.500 ● 186,95
75	12.13.750 ● 278,20



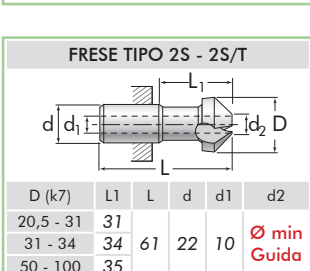
**INSERTI-TIN**

Diametro Fresa	CODICE	PREZZO €
Da 34 a 40	12.19.095 ●	8,37
Da 42 a 60	12.19.127 ●	11,96

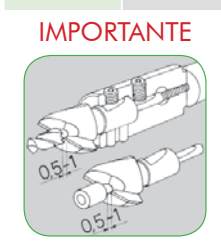


**VITI TORX**

Diametro Fresa	CODICE	PREZZO €
Da 34 a 40	12.20.095 ●	3,38
Da 42 a 60	12.20.127 ●	3,84



N/T	
Ø	PREZZO €
50,0	12.09.500 ● 200,42
51,0	12.09.510 ● 202,44
52,0	12.09.520 ● 207,56
53,0	12.09.530 ○ 207,56
54,0	12.09.540 ○ 215,68
55,0	12.09.550 ● 215,68
56,0	12.09.560 ● 219,18
57,0	12.09.570 ● 221,48
58,0	12.09.580 ○ 227,40
60,0	12.09.600 ● 234,24
62,0	12.09.620 ● 240,16
64,0	12.09.640 ○ 289,10
65,0	12.09.650 ● 277,49
66,0	12.09.660 ○ 289,10
68,0	12.09.680 ● 313,45
70,0	12.09.700 ● 307,68
72,0	12.09.720 ● 343,92
74,0	12.09.740 ○ 357,61
75,0	12.09.750 ● 361,40
76,0	12.09.760 ● 391,69
78,0	12.09.780 ○ 391,69
80,0	12.09.800 ● 385,79
82,0	12.09.820 ● 433,66
84,0	12.09.840 ○ 469,78
85,0	12.09.850 ● 494,24



H/T	
Ø	PREZZO €
12.11.500 ●	280,62
12.11.510 ○	280,62
12.11.520 ●	287,56
12.11.530 ○	289,87
12.11.540 ●	301,37
12.11.550 ○	296,73
12.11.560 ●	319,85
12.11.570 ○	325,67
12.11.580 ●	327,93
12.11.600 ○	330,21
12.11.620 ●	354,54
12.11.640 ○	366,02
12.11.650 ●	366,02
12.11.660 ○	397,22
12.11.680 ●	401,85
12.11.700 ○	400,64
12.11.720 ●	453,80
12.11.740 ○	476,47
12.11.750 ●	476,47
12.11.780 ●	489,60
12.11.800 ○	513,78
12.11.820 ●	555,25
12.11.850 ●	626,90

**CHIAVI TORX**

Torx	CODICE	PREZZO €
T15	12.21.095 ●	6,10
T20	12.21.127 ●	6,64